SUBJECT INDEX

Acceleration

Integrated System for Managing Owner-Directed Project Acceleration, Nagui I. Riad, David Arditi and Jamshid Mohammadi, CO Mar. 94, p77-95.

Accident prevention

Humanware, Human Error, and Hiyari-Hat: A Template of Unsafe Symptoms, Shigeomi Nishigaki, Jeannette Vavrin, Noriaki Kano, Toshiro Haga, John C. Kunz and Kincho Law, CO June 94, p421-442.

Admixtures

Knowledge-Based Expert System for Concrete Mix Design, Yong Bai and Serji N. Amirkhanian, CO June 94, p357-373.

Airblast

Ground Motions and Air-Blast Effects of Explosive Demolition of Structures, Charles H. Dowding, CO Dec. 94, p838-856.

Airport construction

Construction of an Island, Brendan Bambrick, CO Mar. 94, p223-227.

Algorithms

DBID: Analogy-Based DSS for Bidding in Construction, Osama Moselhi, Tarek Hegazy and Paul Fazio, CO Sept. 93, p466-479.

Anchorages

Construction of Akashi-Kaikyo Bridge West Anchorage, Nobuaki Furuya, Reizou Yamaoka and Boyd C. Paulson, Jr., CO June 94, p337-356.

Asphalt pavements

Effect of Testing Variability on Contractor Payment for Asphalt Pavements, Serji N. Amirkhanian, James L. Burati, Jr. and Harish C. Mirchandani, CO Sept. 94, p579-592.

Automation

Automation and Robotics Opportunities: Construction Versus Manufacturing, John G. Everett and Alexander H. Slocum, CO June 94, p443-452.

Robot for Interior-Finishing Works in Building: Feasibility Analysis, Abraham Warszawski and Yechiel Rosenfeld, CO Mar. 94, p132-151.

Benefit cost analysis

Comparative Analysis of Three Constructability Approaches, Jeffrey S. Russell, John G. Gugel and Michael W. Radtke, CO Mar. 94, p180-195.

Bids

Average-Bid Method—Competitive Bidding Strategy, Photios G. Ioannou and Sou-Sen Leu, CO Mar. 93, p131-147.

Bidding Model for Refurbishment Work, Teo Ho Pin and W. F. Scott, CO June 94, p257-273.

Improving Contractors' Bids Using Preference Reversal Phenomenon, Richard de Neufville and Jayme Todd Smith, CO Dec. 94, p706-719.

Blast effects

Ground Motions and Air-Blast Effects of Explosive Demolition of Structures, Charles H. Dowding, CO Dec. 94, p838-856.

Bonds, contracts

Predicting Construction Contract Surety Bond Claims Using Contractor Financial Data, Gordon D. Severson, Jeffrey S. Russell and Edward J. Jaselskis, CO June 94, p405-420.

Boreholes

Properties of Soundless Chemical Demolition Agents, Jimmie Hinze and James Brown, CO Dec. 94, p816-827.

Boring

Tracking and Steering Systems in Trenchless Construction, R. Tanwani and D. T. Iseley, CO Mar. 94, p65-76.

Brick masonry

Void Mortar Joints: Bane of Brick Masonry, Clayford T. Grimm, CO Mar. 94, p152-161.

Bridge construction

Case Study of Burlington Cable-Stayed Bridge, Kevin E. Swiggum, Stuart D. Anderson and Jeffrey S. Russell, CO Sept. 94, p649-666.

Construction of Akashi-Kaikyo Bridge West Anchorage, Nobuaki Furuya, Reizou Yamaoka and Boyd C. Paulson, Jr., CO June 94, p337-356.

Bridges, cable-stayed

Case Study of Burlington Cable-Stayed Bridge, Kevin E. Swiggum, Stuart D. Anderson and Jeffrey S. Russell, CO Sept. 94, p649-666.

Bridges, suspension

Construction of Akashi-Kaikyo Bridge West Anchorage, Nobuaki Furuya, Reizou Yamaoka and Boyd C. Paulson, Jr., CO June 94, p337-356.

Building codes

Void Mortar Joints: Bane of Brick Masonry, Clayford T. Grimm, CO Mar. 94, p152-161.

Building design

Building Procurement by Design and Build Approach, Issaka Ndekugri and Adrian Turner, CO June 94, p243-256.

Buildings

Building Construction Detailed Estimating Practices in Saudi Arabia, Kamal M. Al-Harbi, David W. Johnston and Habib Fayadh, CO Dec. 94, p774-784.

Building Procurement by Design and Build Approach, Issaka Ndekugri and Adrian Turner, CO June 94, p243-256.

Case reports
Case Study of Burlington Cable-Stayed Bridge, Kevin E. Swiggum, Stuart D. Anderson and Jeffrey S. Russell, CO Sept. 94, p649-666.

Performance of Management Contracts, Shamil G. Naoum, CO Dec. 94, p687-705.

Characteristics
Model for Constructability Approach Selection, John G. Gugel and Jeffrey S. Russell, CO Sept. 94, p509-521.

Chemicals
Properties of Soundless Chemical Demolition Agents, Jimmie Hinze and James Brown, CO Dec. 94, p816-827.

Claims
Construction Claims and Disputes: Causes and Cost/Time Overruns, Cheryl Semple, Francis T. Hartman and George Jergeas, CO Dec. 94, p785-795.

Contractors' Construction-Claims Avoidance, George F. Jergeas and Francis T. Hartman, CO Sept. 94, p553-560.

Hypertext and Claim Analysis, Geoffrey Bubbers and John Christian, CO Dec. 92, p716-730.

Integrated System for Managing Owner-Directed Project Acceleration, Nagui I. Riad, David Arditi and Jamshid Mohammadi, CO Mar. 94, p77-95.

Interpretation of Construction Contracts, H. Randolph Thomas, Gary R. Smith and Robert E. Mellott, CO June 94, p321-336.

Predicting Construction Contract Surety Bond Claims Using Contractor Financial Data, Gordon D. Severson, Jeffrey S. Russell and Edward J. Jaselskis, CO June 94, p405-420.

Client relationships
Performance of Management Contracts, Shamil G. Naoum, CO Dec. 94, p687-705.

Coded signals
2D Bar-Code Applications in Construction, Bob G. McCullouch and Kamolwan Lueprasert, CO Dec. 94, p739-752.

Communication
Process of Planning During Construction, Dora Cohenca-Zall, Alexander Laufer, Aviad Shapira and Gregory A. Howell, CO Sept. 94, p561-578.

Competition
Introducing New Process Technologies into Construction Companies, Maria Laborde and Victor Sanvido, CO Sept. 94, p488-508.

Competitive bidding
Average-Bid Method—Competitive Bidding Strategy, Photios G. Ioannou and Sou-Sen Leu, CO Mar. 93, p131-147.

Bidding Model for Refurbishment Work, Teo Ho Pin and W. F. Scott, CO June 94, p257-273.

DBID: Analogy-Based DSS for Bidding in Construction, Osama Moselhi, Tarek Hegazy and Paul Fazio, CO Sept. 93, p466-479.

Computer aided drafting (CAD)
Construction Site Applications of CAD, John J. Mahoney and C. B. Tatum, CO Sept. 94, p617-631.

Computer applications
Construction Site Applications of CAD, John J. Mahoney and C. B. Tatum, CO Sept. 94, p617-631.

Effects of Design-Integrated Process Planning on Productivity in Rebar Placement, Md. Salim and Leonhard E. Bernold, CO Dec. 94, p720-738.

Hypertext and Claim Analysis, Geoffrey Bubbers and John Christian, CO Dec. 92, p716-730.

Predicting Changes in Construction Cost Indexes Using Neural Networks, Trefor P. Williams, CO June 94, p306-320.

Computer models
Strategy for Computer Integrated Construction Technology, Paul Teicholz and Martin Fischer, CO Mar. 94, p117-131.

Computer programs
Fitting Beta Distributions Based on Sample Data, Simaan M. AbouRizk, Daniel W. Halpin and James R. Wilson, CO June 94, p288-305.

Computerized design
Construction Site Applications of CAD, John J. Mahoney and C. B. Tatum, CO Sept. 94, p617-631.

Computers
Assembly of Simulation Networks Using Designs, Plans, and Methods, I. D. Tommelein, R. I. Carr and A. M. Odeh, CO Dec. 94, p796-815.

Concrete
Knowledge-Based Expert System for Concrete Mix Design, Yong Bai and Serji N. Amirkhanian, CO June 94, p357-373.

Properties of Soundless Chemical Demolition Agents, Jimmie Hinze and James Brown, CO Dec. 94, p816-827.

Conflict
Interpretation of Construction Contracts, H. Randolph Thomas, Gary R. Smith and Robert E. Mellott, CO June 94, p321-336.

Consolidation, soils
Construction of an Island, Brendan Bambrick, CO Mar. 94, p223-227.

Constraints
HVLS: Horizontal and Vertical Logic Scheduling for Multistory Projects, Walid Y. Thabet and Yvan J. Beliveau, CO Dec. 94, p875-892.

Constructibility
Case Study of Burlington Cable-Stayed Bridge, Kevin E. Swiggum, Stuart D. Anderson and Jeffrey S. Russell, CO Sept. 94, p649-666.

Comparative Analysis of Three Constructability Approaches, Jeffrey S. Russell, John G. Gugel and Michael W. Radtke, CO Mar. 94, p180-195.

Model for Constructability Approach Selection, John G. Gugel and Jeffrey S. Russell, CO Sept. 94, p509-521.

Construction

Assembly of Simulation Networks Using Designs, Plans, and Methods, I. D. Tommelein, R. I. Carr and A. M. Odeh, CO Dec. 94, p796-815.

Automation and Robotics Opportunities: Construction Versus Manufacturing, John G. Everett and Alexander H. Slocum, CO June 94, p443-452.

Building Procurement by Design and Build Approach, Issaka Ndekugri and Adrian Turner, CO June 94, p243-256.

DBID: Analogy-Based DSS for Bidding in Construction, Osama Moselhi, Tarek Hegazy and Paul Fazio, CO Sept. 93, p466-479.

Developing Specifications for Cellular-Telephone Base Stations, John C. Woolery, CO Sept. 94, p593-602.

Fuzzy Modus Ponens Deduction Technique for Construction Scheduling, Ricky Wai-Kin Wu and Fabian C. Hadipriono, CO Mar. 94, p162-179.

Humanware, Human Error, and Hiyari-Hat: A Template of Unsafe Symptoms, Shigeomi Nishigaki, Jeannette Vavrin, Noriaki Kano, Toshiro Haga, John C. Kunz and Kincho Law, CO June 94, p421-442.

Hypertext and Claim Analysis, Geoffrey Bubbers and John Christian, CO Dec. 92, p716-730.

Interpretation of Construction Contracts, H. Randolph Thomas, Gary R. Smith and Robert E. Mellott, CO June 94, p321-336.

Quality Performance on Successful Project, W. B. Ledbetter, CO Mar. 94, p34-46.

Robot for Interior-Finishing Works in Building: Feasibility Analysis, Abraham Warszawski and Yechiel Rosenfeld, CO Mar. 94, p132-151.

Simulation of Learning Development in Repetitive Construction, James D. Lutz, Daniel W. Halpin and James R. Wilson, CO Dec. 94, p753-773.

Simulation Verifies Queuing Program for Selecting Loader-Truck Fleets, Foad Farid and Thomas L. Koning, CO June 94, p386-404.

Strategies for Technology Push: Lessons from Construction Innovations, C. H. Nam and C. B. Tatum, CO Sept. 92, p507-524.

Strategy for Computer Integrated Construction Technology, Paul Teicholz and Martin Fischer, CO Mar. 94, p117-131.

Construction costs

Building Construction Detailed Estimating Practices in Saudi Arabia, Kamal M. Al-Harbi, David W. Johnston and Habib Fayadh, CO Dec. 94, p774-784.

Improving Contractors' Bids Using Preference Reversal Phenomenon, Richard de Neufville and Jayme Todd Smith, CO Dec. 94, p706-719.

Learning Curve Predictors for Construction Field Operations, John G. Everett and Sherif Farghal, CO Sept. 94, p603-616.

Predicting Changes in Construction Cost Indexes Using Neural Networks, Trefor P. Williams, CO June 94, p306-320.

Construction industry

2D Bar-Code Applications in Construction, Bob G. McCullouch and Kamolwan Lueprasert, CO Dec. 94, p739-752.

Average-Bid Method—Competitive Bidding Strategy, Photios G. Ioannou and Sou-Sen Leu, CO Mar. 93, p131-147.

Introducing New Process Technologies into Construction Companies, Maria Laborde and Victor Sanvido, CO Sept. 94, p488-508.

Minority Contractors: Framework for New Policy Development, Zuhair El-Itr and Roozbeh Kangari, CO Sept. 94, p632-648.

Source Evaluation of Solid Waste in Building Construction, Rafael M. Gavilan and Leonhard E. Bernold, CO Sept. 94, p536-552.

Construction management

Action-Response Model and Loss of Productivity in Construction, David W. Halligan, Laura A. Demsetz, James D. Brown and Clark B. Pace, CO Mar. 94, p47-64.

Automated Construction-Simulation Optimization, Simaan AbouRizk and Jingsheng Shi, CO June 94, p374-385.

Automated Corrective Action Selection Assistant, Alan D. Russell and Amin'h Fayek, CO Mar. 94, p11-33.

Choosing Appropriate Construction Contracting Method, Christopher M. Gordon, CO Mar. 94, p196-210.

Construction Claims and Disputes: Causes and Cost/Time Overruns, Cheryl Semple, Francis T. Hartman and George Jergeas, CO Dec. 94, p785-795.

Construction Site Applications of CAD, John J. Mahoney and C. B. Tatum, CO Sept. 94, p617-631.

Contractors' Construction-Claims Avoidance, George F. Jergeas and Francis T. Hartman, CO Sept. 94, p553-560.

Fitting Beta Distributions Based on Sample Data, Simaan M. AbouRizk, Daniel W. Halpin and James R. Wilson, CO June 94, p288-305.

Fuzzy Modus Ponens Deduction Technique for Construction Scheduling, Ricky Wai-Kin Wu and Fabian C. Hadipriono, CO Mar. 94, p162-179.

Group Dynamics and Construction Project Manager, Pantalec D. Rwelamila, CO Mar. 94, p3-10.

Improving Contractors' Bids Using Preference Reversal Phenomenon, Richard de Neufville and Jayme Todd Smith, CO Dec. 94, p706-719.

Learning Curve Predictors for Construction Field Operations, John G. Everett and Sherif Farghal, CO Sept. 94, p603-616.

Modified Roof Erection System, James D. Stevens and Alan L. Murray, CO Dec. 94, p828-837.

Process Model for Public Sector Design-Build Planning, Anthony D. Songer, C. William Ibbs and Thomas R. Napier, CO Dec. 94, p857-874.

Process of Planning During Construction, Dora Cohenca-Zall, Alexander Laufer, Aviad Shapira and Gregory A. Howell, CO Sept. 94, p561-578.

Robot for Interior-Finishing Works in Building: Feasibility Analysis, Abraham Warszawski and Yechiel Rosenfeld, CO Mar. 94, p132-151.

Construction methods

Assembly of Simulation Networks Using Designs, Plans, and Methods, I. D. Tommelein, R. I. Carr and A. M. Odeh, CO Dec. 94, p796-815.

Automation and Robotics Opportunities: Construction Versus Manufacturing, John G. Everett and Alexander H. Slocum, CO June 94, p443-452.

Building Procurement by Design and Build Approach, Issaka Ndekugri and Adrian Turner, CO June 94, p243-256.

Case Study of Burlington Cable-Stayed Bridge, Kevin E. Swiggum, Stuart D. Anderson and Jeffrey S. Russell, CO Sept. 94, p649-666.

Construction of an Island, Brendan Bambrick, CO Mar. 94, p223-227.

Construction Technologies for Sewer Rehabilitation, Santiago M. Reyna, Jorge A. Vanegas and Abdul H. Khan, CO Sept. 94, p467-487.

Effects of Design-Integrated Process Planning on Productivity in Rebar Placement, Md. Salim and Leonhard E. Bernold, CO Dec. 94, p720-738.

Learning Curve Predictors for Construction Field Operations, John G. Everett and Sherif Farghal, CO Sept. 94, p603-616.

Modified Roof Erection System, James D. Stevens and Alan L. Murray, CO Dec. 94, p828-837.

Construction planning

Assembly of Simulation Networks Using Designs, Plans, and Methods, I. D. Tommelein, R. I. Carr and A. M. Odeh, CO Dec. 94, p796-815.

Comparative Analysis of Three Constructability Approaches, Jeffrey S. Russell, John G. Gugel and Michael W. Radtke, CO Mar. 94, p180-195.

HVLS: Horizontal and Vertical Logic Scheduling for Multistory Projects, Walid Y. Thabet and Yvan J. Beliveau, CO Dec. 94, p875-892.

Modeling Work Space to Schedule Repetitive Floors in Multistory Buildings, Walid Y. Thabet and Yvan J. Beliveau, CO Mar. 94, p96-116.

Process of Planning During Construction, Dora Cohenca-Zall, Alexander Laufer, Aviad Shapira and Gregory A. Howell, CO Sept. 94, p561-578.

Construction sites

Automated Corrective Action Selection Assistant, Alan D. Russell and Aminah Fayek, CO Mar. 94, p11-33.

Construction Site Applications of CAD, John J. Mahoney and C. B. Tatum, CO Sept. 94, p617-631.

Contract administration

Construction Claims and Disputes: Causes and Cost/Time Overruns, Cheryl Semple, Francis T. Hartman and George Jergeas, CO Dec. 94, p785-795.

The Contractor-Subcontractor Relationship: The Subcontractor's View, Jimmie Hinze and Andrew Tracey, CO June 94, p274-287.

Interpretation of Construction Contracts, H. Randolph Thomas, Gary R. Smith and Robert E. Mellott, CO June 94, p321-336.

Contract terms

Choosing Appropriate Construction Contracting Method, Christopher M. Gordon, CO Mar. 94, p196-210.

Construction Claims and Disputes: Causes and Cost/Time Overruns, Cheryl Semple, Francis T. Hartman and George Jergeas, CO Dec. 94, p785-795.

Contractors' Construction-Claims Avoidance, George F. Jergeas and Francis T. Hartman, CO Sept. 94, p553-560.

The Contractor-Subcontractor Relationship: The Subcontractor's View, Jimmie Hinze and Andrew Tracey, CO June 94, p274-287.

Improving Contractors' Bids Using Preference Reversal Phenomenon, Richard de Neufville and Jayme Todd Smith, CO Dec. 94, p706-719.

Interpretation of Construction Contracts, H. Randolph Thomas, Gary R. Smith and Robert E. Mellott, CO June 94, p321-336.

Contractors

The Contractor-Subcontractor Relationship: The Subcontractor's View, Jimmie Hinze and Andrew Tracey, CO June 94, p274-287.

Improving Contractors' Bids Using Preference Reversal Phenomenon, Richard de Neufville and Jayme Todd Smith, CO Dec. 94, p706-719.

Minority Contractors: Framework for New Policy Development, Zuhair El-Itr and Roozbeh Kangari, CO Sept. 94, p632-648.

Predicting Construction Contract Surety Bond Claims Using Contractor Financial Data, Gordon D. Severson, Jeffrey S. Russell and Edward J. Jaselskis, CO June 94, p405-420.

Contracts

Average-Bid Method—Competitive Bidding Strategy, Photios G. Ioannou and Sou-Sen Leu, CO Mar. 93, p131-147.

Bidding Model for Refurbishment Work, Teo Ho Pin and W. F. Scott, CO June 94, p257-273.

Choosing Appropriate Construction Contracting Method, Christopher M. Gordon, CO Mar. 94, p196-210.

Contractors' Construction-Claims Avoidance, George F. Jergeas and Francis T. Hartman, CO Sept. 94, p553-560.

Hypertext and Claim Analysis, Geoffrey Bubbers and John Christian, CO Dec. 92, p716-730.

Performance of Management Contracts, Shamil G. Naoum, CO Dec. 94, p687-705.

Process Model for Public Sector Design-Build Planning, Anthony D. Songer, C. William Ibbs and Thomas R. Napier, CO Dec. 94, p857-874.

Control systems

2D Bar-Code Applications in Construction, Bob G. McCullouch and Kamolwan Lueprasert, CO Dec. 94, p739-752.

Cost analysis

Equipment Management through Operational Failure Costs, Athanase I. Tsimberdonis and E. Lile Murphree, Jr., CO Sept. 94, p522-535.

Predicting Changes in Construction Cost Indexes Using Neural Networks, Trefor P. Williams, CO June 94, p306-320.

Cost control

Construction Claims and Disputes: Causes and Cost/Time Overruns, Cheryl Semple, Francis T. Hartman and George Jergeas, CO Dec. 94, p785-795.

Cost estimates

Building Construction Detailed Estimating Practices in Saudi Arabia, Kamal M. Al-Harbi, David W. Johnston and Habib Fayadh, CO Dec. 94, p774-784.

Cracking

Properties of Soundless Chemical Demolition Agents, Jimmie Hinze and James Brown, CO Dec. 94, p816-827.

Critical path method

CPM/LOB: New Methodology to Integrate CPM and Line of Balance, Saad A. Suhail and Richard H. Neale, CO Sept. 94, p667-684.

Data collection

Automated Corrective Action Selection Assistant, Alan D. Russell and Aminah Fayek, CO Mar. 94, p11-33.

Data communication

2D Bar-Code Applications in Construction, Bob G. McCullouch and Kamolwan Lueprasert, CO Dec. 94, p739-752.

Database management systems

2D Bar-Code Applications in Construction, Bob G. McCullouch and Kamolwan Lueprasert, CO Dec. 94, p739-752.

Integrated GIS for Construction Site Investigation, Amr R. Oloufa, Ahmed A. Eltahan and C. S. Papacostas, CO Mar. 94, p211-222.

Decision support systems

DBID: Analogy-Based DSS for Bidding in Construction, Osama Moselhi, Tarek Hegazy and Paul Fazio, CO Sept. 93, p466-479.

Fuzzy Modus Ponens Deduction Technique for Construction Scheduling, Ricky Wai-Kin Wu and Fabian C. Hadipriono, CO Mar. 94, p162-179.

Delay time

Construction Claims and Disputes: Causes and Cost/Time Overruns, Cheryl Semple, Francis T. Hartman and George Jergeas, CO Dec. 94, p785-795.

Demolition

Ground Motions and Air-Blast Effects of Explosive Demolition of Structures, Charles H. Dowding, CO Dec. 94, p838-856.

Properties of Soundless Chemical Demolition Agents, Jimmie Hinze and James Brown, CO Dec. 94, p816-827.

Design

Assembly of Simulation Networks Using Designs, Plans, and Methods, I. D. Tommelein, R. I. Carr and A. M. Odeh, CO Dec. 94, p796-815.

Quality Performance on Successful Project, W. B. Ledbetter, CO Mar. 94, p34-46.

Strategy for Computer Integrated Construction Technology, Paul Teicholz and Martin Fischer, CO Mar. 94, p117-131.

Distribution patterns

Bidding Model for Refurbishment Work, Teo Ho Pin and W. F. Scott, CO June 94, p257-273.

Earthmoving

Simulation Verifies Queuing Program for Selecting Loader-Truck Fleets, Foad Farid and Thomas L. Koning, CO June 94, p386-404.

Economic analysis

Equipment Management through Operational Failure Costs, Athanase I. Tsimberdonis and E. Lile Murphree, Jr., CO Sept. 94, p522-535.

Economic development

Minority Contractors: Framework for New Policy Development, Zuhair El-Itr and Roozbeh Kangari, CO Sept. 94, p632-648.

Employees

Action-Response Model and Loss of Productivity in Construction, David W. Halligan, Laura A. Demsetz, James D. Brown and Clark B. Pace, CO Mar. 94, p47-64.

Environmental effects

Source Evaluation of Solid Waste in Building Construction, Rafael M. Gavilan and Leonhard E. Bernold, CO Sept. 94, p536-552.

Equipment

Equipment Management through Operational Failure Costs, Athanase I. Tsimberdonis and E. Lile Murphree, Jr., CO Sept. 94, p522-535.

Simulation Verifies Queuing Program for Selecting Loader-Truck Fleets, Foad Farid and Thomas L. Koning, CO June 94, p386-404.

Equipment costs

Equipment Management through Operational Failure Costs, Athanase I. Tsimberdonis and E. Lile Murphree, Jr., CO Sept. 94, p522-535.

Errors

Humanware, Human Error, and Hiyari-Hat: A Template of Unsafe Symptoms, Shigeomi Nishigaki, Jeannette Vavrin, Noriaki Kano, Toshiro Haga, John C. Kunz and Kincho Law, CO June 94, p421-442.

Estimates

Predicting Changes in Construction Cost Indexes Using Neural Networks, Trefor P. Williams, CO June 94, p306-320.

Estimating
Building Construction Detailed Estimating Practices in Saudi Arabia, Kamal M. Al-Harbi, David W. Johnston and Habib Fayadh, CO Dec. 94, p774-784.

Expansion
Properties of Soundless Chemical Demolition Agents, Jimmie Hinze and James Brown, CO Dec. 94, p816-827.

Expert systems
Automated Corrective Action Selection Assistant, Alan D. Russell and Aminah Fayek, CO Mar. 94, p11-33.

Integrated System for Managing Owner-Directed Project Acceleration, Nagui I. Riad, David Arditi and Jamshid Mohammadi, CO Mar. 94, p77-95.

Knowledge-Based Expert System for Concrete Mix Design, Yong Bai and Serji N. Amirkhanian, CO June 94, p357-373.

Explosions
Ground Motions and Air-Blast Effects of Explosive Demolition of Structures, Charles H. Dowding, CO Dec. 94, p838-856.

Facilities
Developing Specifications for Cellular-Telephone Base Stations, John C. Woolery, CO Sept. 94, p593-602.

Feedback control
Automated Construction-Simulation Optimization, Simaan AbouRizk and Jingsheng Shi, CO June 94, p374-385.

Financial analysis
Equipment Management through Operational Failure Costs, Athanase I. Tsimberdonis and E. Lile Murphree, Jr., CO Sept. 94, p522-535.

Predicting Construction Contract Surety Bond Claims Using Contractor Financial Data, Gordon D. Severson, Jeffrey S. Russell and Edward J. Jaselskis, CO June 94, p405-420.

Forecasting
Forecasting Labor Productivity Using Factor Model, H. Randolph Thomas and Ahmet S. Sakarcan, CO Mar. 94, p228-239.

Fuzzy sets
Automated Corrective Action Selection Assistant, Alan D. Russell and Aminah Fayek, CO Mar. 94, p11-33.

Fuzzy Modus Ponens Deduction Technique for Construction Scheduling, Ricky Wai-Kin Wu and Fabian C. Hadipriono, CO Mar. 94, p162-179.

Geographic information systems
Integrated GIS for Construction Site Investigation, Amr R. Oloufa, Ahmed A. Eltahan and C. S. Papacostas, CO Mar. 94, p211-222.

Ground motion
Ground Motions and Air-Blast Effects of Explosive Demolition of Structures, Charles H. Dowding, CO Dec. 94, p838-856.

Group communication
Group Dynamics and Construction Project Manager, Pantaleo D. Rwelamila, CO Mar. 94, p3-10.

Human behavior
Humanware, Human Error, and Hiyari-Hat: A Template of Unsafe Symptoms, Shigeomi Nishigaki, Jeannette Vavrin, Noriaki Kano, Toshiro Haga, John C. Kunz and Kincho Law, CO June 94, p421-442.

Improving Contractors' Bids Using Preference Reversal Phenomenon, Richard de Neufville and Jayme Todd Smith, CO Dec. 94, p706-719.

Human factors
Humanware, Human Error, and Hiyari-Hat: A Template of Unsafe Symptoms, Shigeomi Nishigaki, Jeannette Vavrin, Noriaki Kano, Toshiro Haga, John C. Kunz and Kincho Law, CO June 94, p421-442.

Impact
Ground Motions and Air-Blast Effects of Explosive Demolition of Structures, Charles H. Dowding, CO Dec. 94, p838-856.

Information management
Integrated GIS for Construction Site Investigation, Amr R. Oloufa, Ahmed A. Eltahan and C. S. Papacostas, CO Mar. 94, p211-222.

Information retrieval
Hypertext and Claim Analysis, Geoffrey Bubbers and John Christian, CO Dec. 92, p716-730.

Information systems
Hypertext and Claim Analysis, Geoffrey Bubbers and John Christian, CO Dec. 92, p716-730.

Infrastructure
Construction Technologies for Sewer Rehabilitation, Santiago M. Reyna, Jorge A. Vanegas and Abdul H. Khan, CO Sept. 94, p467-487.

Innovation
Case Study of Burlington Cable-Stayed Bridge, Kevin E. Swiggum, Stuart D. Anderson and Jeffrey S. Russell, CO Sept. 94, p649-666.

Introducing New Process Technologies into Construction Companies, Maria Laborde and Victor Sanvido, CO Sept. 94, p488-508.

Strategies for Technology Push: Lessons from Construction Innovations, C. H. Nam and C. B. Tatum, CO Sept. 92, p507-524.

Installation
Tracking and Steering Systems in Trenchless Construction, R. Tanwani and D. T. Iseley, CO Mar. 94, p65-76.

Instrumentation
Tracking and Steering Systems in Trenchless Construction, R. Tanwani and D. T. Iseley, CO Mar. 94, p65-76.

Interactions
Model for Constructability Approach Selection, John G. Gugel and Jeffrey S. Russell, CO Sept. 94, p509-521.

Interactive systems
Assembly of Simulation Networks Using Designs, Plans, and Methods, I. D. Tommelein, R. I. Carr and A. M. Odeh, CO Dec. 94, p796-815.

Interconnected systems
Strategy for Computer Integrated Construction Technology, Paul Teicholz and Martin Fischer, CO Mar. 94, p117-131.

Inventories
2D Bar-Code Applications in Construction, Bob G. McCullouch and Kamolwan Lueprasert, CO Dec. 94, p739-752.

Islands
Construction of an Island, Brendan Bambrick, CO Mar. 94, p223-227.

Japan
Construction of Akashi-Kaikyo Bridge West Anchorage, Nobuaki Furuya, Reizou Yamaoka and Boyd C. Paulson, Jr., CO June 94, p337-356.

Construction of an Island, Brendan Bambrick, CO Mar. 94, p223-227.

Knowledge acquisition
Simulation of Learning Development in Repetitive Construction, James D. Lutz, Daniel W. Halpin and James R. Wilson, CO Dec. 94, p753-773.

Labor
Forecasting Labor Productivity Using Factor Model, H. Randolph Thomas and Ahmet S. Sakarcan, CO Mar. 94, p228-239.

Land reclamation
Construction of an Island, Brendan Bambrick, CO Mar. 94, p223-227.

Learning curve
Learning Curve Predictors for Construction Field Operations, John G. Everett and Sherif Farghal, CO Sept. 94, p603-616.

Simulation of Learning Development in Repetitive Construction, James D. Lutz, Daniel W. Halpin and James R. Wilson, CO Dec. 94, p753-773.

Least squares method
Fitting Beta Distributions Based on Sample Data, Simaan M. AbouRizk, Daniel W. Halpin and James R. Wilson, CO June 94, p288-305.

Line of balance
CPM/LOB: New Methodology to Integrate CPM and Line of Balance, Saad A. Suhail and Richard H. Neale, CO Sept. 94, p667-684.

Linear analysis
HVLS: Horizontal and Vertical Logic Scheduling for Multistory Projects, Walid Y. Thabet and Yvan J. Beliveau, CO Dec. 94, p875-892.

Management
Action-Response Model and Loss of Productivity in Construction, David W. Halligan, Laura A. Demsetz, James D. Brown and Clark B. Pace, CO Mar. 94, p47-64.

Equipment Management through Operational Failure Costs, Athanase I. Tsimberdonis and E. Lile Murphree, Jr., CO Sept. 94, p522-535.

Process Model for Public Sector Design-Build Planning, Anthony D. Songer, C. William Ibbs and Thomas R. Napier, CO Dec. 94, p857-874.

Management methods
Process of Planning During Construction, Dora Cohenca-Zall, Alexander Laufer, Aviad Shapira and Gregory A. Howell, CO Sept. 94, p561-578.

Management systems
Group Dynamics and Construction Project Manager, Pantaleo D. Rwelamila, CO Mar. 94, p3-10.

Materials testing
Effect of Testing Variability on Contractor Payment for Asphalt Pavements, Serji N. Amirkhanian, James L. Burati, Jr. and Harish C. Mirchandani, CO Sept. 94, p579-592.

Mathematical models
Learning Curve Predictors for Construction Field Operations, John G. Everett and Sherif Farghal, CO Sept. 94, p603-616.

Methodology
Comparative Analysis of Three Constructability Approaches, Jeffrey S. Russell, John G. Gugel and Michael W. Radtke, CO Mar. 94, p180-195.

Minority groups
Minority Contractors: Framework for New Policy Development, Zuhair El-Itr and Roozbeh Kangari, CO Sept. 94, p632-648.

Mixing
Knowledge-Based Expert System for Concrete Mix Design, Yong Bai and Serji N. Amirkhanian, CO June 94, p357-373.

Mixtures
Knowledge-Based Expert System for Concrete Mix Design, Yong Bai and Serji N. Amirkhanian, CO June 94, p357-373.

Modeling
Action-Response Model and Loss of Productivity in Construction, David W. Halligan, Laura A. Demsetz, James D. Brown and Clark B. Pace, CO Mar. 94, p47-64.

Average-Bid Method—Competitive Bidding Strategy, Photios G. Ioannou and Sou-Sen Leu, CO Mar. 93, p131-147.

Fitting Beta Distributions Based on Sample Data, Simaan M. AbouRizk, Daniel W. Halpin and James R. Wilson, CO June 94, p288-305.

Predicting Construction Contract Surety Bond Claims Using Contractor Financial Data, Gordon D. Severson, Jeffrey S. Russell and Edward J. Jaselskis, CO June 94, p405-420.

Process Model for Public Sector Design-Build Planning, Anthony D. Songer, C. William Ibbs and Thomas R. Napier, CO Dec. 94, p857-874.

Simulation of Learning Development in Repetitive Construction, James D. Lutz, Daniel W. Halpin and James R. Wilson, CO Dec. 94, p753-773.

Models

Assembly of Simulation Networks Using Designs, Plans, and Methods, I. D. Tommelein, R. I. Carr and A. M. Odeh, CO Dec. 94, p796-815.

Model for Constructability Approach Selection, John G. Gugel and Jeffrey S. Russell, CO Sept. 94, p509-521.

Modular structures

Modified Roof Erection System, James D. Stevens and Alan L. Murray, CO Dec. 94, p828-837.

Mortars

Void Mortar Joints: Bane of Brick Masonry, Clayford T. Grimm, CO Mar. 94, p152-161.

Multistory buildings

HVLS: Horizontal and Vertical Logic Scheduling for Multistory Projects, Walid Y. Thabet and Yvan J. Beliveau, CO Dec. 94, p875-892.

Modeling Work Space to Schedule Repetitive Floors in Multistory Buildings, Walid Y. Thabet and Yvan J. Beliveau, CO Mar. 94, p96-116.

Neural networks

DBID: Analogy-Based DSS for Bidding in Construction, Osama Moselhi, Tarek Hegazy and Paul Fazio, CO Sept. 93, p466-479.

Predicting Changes in Construction Cost Indexes Using Neural Networks, Trefor P. Williams, CO June 94, p306-320.

Object-oriented languages

Strategy for Computer Integrated Construction Technology, Paul Teicholz and Martin Fischer, CO Mar. 94, p117-131.

Optimization

Automated Construction-Simulation Optimization, Simaan AbouRizk and Jingsheng Shi, CO June 94, p374-385.

Owners

Model for Constructability Approach Selection, John G. Gugel and Jeffrey S. Russell, CO Sept. 94, p509-521.

Payment

The Contractor-Subcontractor Relationship: The Subcontractor's View, Jimmie Hinze and Andrew Tracey, CO June 94, p274-287.

Effect of Testing Variability on Contractor Payment for Asphalt Pavements, Serji N. Amirkhanian, James L. Burati, Jr. and Harish C. Mirchandani, CO Sept. 94, p579-592.

Performance

Forecasting Labor Productivity Using Factor Model, H. Randolph Thomas and Ahmet S. Sakarcan, CO Mar. 94, p228-239.

Performance evaluation

Performance of Management Contracts, Shamil G. Naoum, CO Dec. 94, p687-705.

Pipe jacking

Tracking and Steering Systems in Trenchless Construction, R. Tanwani and D. T. Iseley, CO Mar. 94, p65-76.

Pipes

Tracking and Steering Systems in Trenchless Construction, R. Tanwani and D. T. Iseley, CO Mar. 94, p65-76.

Planning

Process of Planning During Construction, Dora Cohenca-Zall, Alexander Laufer, Aviad Shapira and Gregory A. Howell, CO Sept. 94, p561-578.

Policies

Minority Contractors: Framework for New Policy Development, Zuhair El-Itr and Roozbeh Kangari, CO Sept. 94, p632-648.

Pressures

Properties of Soundless Chemical Demolition Agents, Jimmie Hinze and James Brown, CO Dec. 94, p816-827.

Probability

Predicting Construction Contract Surety Bond Claims Using Contractor Financial Data, Gordon D. Severson, Jeffrey S. Russell and Edward J. Jaselskis, CO June 94, p405-420.

Probability distribution

Fitting Beta Distributions Based on Sample Data, Simaan M. AbouRizk, Daniel W. Halpin and James R. Wilson, CO June 94, p288-305.

Probability theory

Average-Bid Method—Competitive Bidding Strategy, Photios G. Ioannou and Sou-Sen Leu, CO Mar. 93, p131-147.

Problem solving

Automated Corrective Action Selection Assistant, Alan D. Russell and Aminah Fayek, CO Mar. 94, p11-33.

Process control

Effects of Design-Integrated Process Planning on Productivity in Rebar Placement, Md. Salim and Leonhard E. Bernold, CO Dec. 94, p720-738.

Process variables

Process Model for Public Sector Design-Build Planning, Anthony D. Songer, C. William Ibbs and Thomas R. Napier, CO Dec. 94, p857-874.

Production planning

CPM/LOB: New Methodology to Integrate CPM and Line of Balance, Saad A. Suhail and Richard H. Neale, CO Sept. 94, p667-684.

Productivity

Action-Response Model and Loss of Productivity in Construction, David W. Halligan, Laura A. Demsetz, James D. Brown and Clark B. Pace, CO Mar. 94, p47-64.

Effects of Design-Integrated Process Planning on Productivity in Rebar Placement, Md. Salim and Leonhard E. Bernold, CO Dec. 94, p720-738.

Forecasting Labor Productivity Using Factor Model, H. Randolph Thomas and Ahmet S. Sakarcan, CO Mar. 94, p228-239.

Introducing New Process Technologies into Construction Companies, Maria Laborde and Victor Sanvido, CO Sept. 94, p488-508.

Learning Curve Predictors for Construction Field Operations, John G. Everett and Sherif Farghal, CO Sept. 94, p603-616.

Modified Roof Erection System, James D. Stevens and Alan L. Murray, CO Dec. 94, p828-837.

Robot for Interior-Finishing Works in Building: Feasibility Analysis, Abraham Warszawski and Yechiel Rosenfeld, CO Mar. 94, p132-151.

Simulation of Learning Development in Repetitive Construction, James D. Lutz, Daniel W. Halpin and James R. Wilson, CO Dec. 94, p753-773.

Simulation Verifies Queuing Program for Selecting Loader-Truck Fleets, Foad Farid and Thomas L. Koning, CO June 94, p386-404.

Project control

Forecasting Labor Productivity Using Factor Model, H. Randolph Thomas and Ahmet S. Sakarcan, CO Mar. 94, p228-239.

Project evaluation

Performance of Management Contracts, Shamil G. Naoum, CO Dec. 94, p687-705.

Project management

Choosing Appropriate Construction Contracting Method, Christopher M. Gordon, CO Mar. 94, p196-210.

Comparative Analysis of Three Constructability Approaches, Jeffrey S. Russell, John G. Gugel and Michael W. Radtke, CO Mar. 94, p180-195.

CPM/LOB: New Methodology to Integrate CPM and Line of Balance, Saad A. Suhail and Richard H. Neale, CO Sept. 94, p667-684.

Group Dynamics and Construction Project Manager, Pantaleo D. Rwelamila, CO Mar. 94, p3-10.

Integrated System for Managing Owner-Directed Project Acceleration, Nagui I. Riad, David Arditi and Jamshid Mohammadi, CO Mar. 94, p77-95.

Quality Performance on Successful Project, W. B. Ledbetter, CO Mar. 94, p34-46.

Project planning

Process Model for Public Sector Design-Build Planning, Anthony D. Songer, C. William Ibbs and Thomas R. Napier, CO Dec. 94, p857-874.

Projects

Model for Constructability Approach Selection, John G. Gugel and Jeffrey S. Russell, CO Sept. 94, p509-521.

Public works

Process Model for Public Sector Design-Build Planning, Anthony D. Songer, C. William Ibbs and Thomas R. Napier, CO Dec. 94, p857-874.

Quality assurance

Quality Performance on Successful Project, W. B. Ledbetter, CO Mar. 94, p34-46.

Quality control - management

Quality Performance on Successful Project, W. B. Ledbetter, CO Mar. 94, p34-46.

Queueing

Simulation Verifies Queuing Program for Selecting Loader-Truck Fleets, Foad Farid and Thomas L. Koning, CO June 94, p386-404.

Random processes

Fitting Beta Distributions Based on Sample Data, Simaan M. AbouRizk, Daniel W. Halpin and James R. Wilson, CO June 94, p288-305.

Records management

Contractors' Construction-Claims Avoidance, George F. Jergeas and Francis T. Hartman, CO Sept. 94, p553-560.

Rehabilitation

Construction Technologies for Sewer Rehabilitation, Santiago M. Reyna, Jorge A. Vanegas and Abdul H. Khan, CO Sept. 94, p467-487.

Renovation

Bidding Model for Refurbishment Work, Teo Ho Pin and W. F. Scott, CO June 94, p257-273.

Research and development

Introducing New Process Technologies into Construction Companies, Maria Laborde and Victor Sanvido, CO Sept. 94, p488-508.

Strategies for Technology Push: Lessons from Construction Innovations, C. H. Nam and C. B. Tatum, CO Sept. 92, p507-524.

Resource allocation

Automated Construction-Simulation Optimization, Simaan AbouRizk and Jingsheng Shi, CO June 94, p374-385.

Resource management

Source Evaluation of Solid Waste in Building Construction, Rafael M. Gavilan and Leonhard E. Bernold, CO Sept. 94, p536-552.

Risk allocation

The Contractor-Subcontractor Relationship: The Subcontractor's View, Jimmie Hinze and Andrew Tracey, CO June 94, p274-287.

Risk management

Contractors' Construction-Claims Avoidance, George F. Jergeas and Francis T. Hartman, CO Sept. 94, p553-560.

Robotics

Automation and Robotics Opportunities: Construction Versus Manufacturing, John G. Everett and Alexander H. Slocum, CO June 94, p443-452.

Robot for Interior-Finishing Works in Building: Feasibility Analysis, Abraham Warszawski and Yechiel Rosenfeld, CO Mar. 94, p132-151.

Rocks

Properties of Soundless Chemical Demolition Agents, Jimmie Hinze and James Brown, CO Dec. 94, p816-827.

Roller compacted concrete

Construction of Akashi-Kaikyo Bridge West Anchorage, Nobuaki Furuya, Reizou Yamaoka and Boyd C. Paulson, Jr., CO June 94, p337-356.

Roofs
Modified Roof Erection System, James D. Stevens and Alan L. Murray, CO Dec. 94, p828-837.

Safety
Humanware, Human Error, and Hiyari-Hat: A Template of Unsafe Symptoms, Shigeomi Nishigaki, Jeannette Vavrin, Noriaki Kano, Toshiro Haga, John C. Kunz and Kincho Law, CO June 94, p421-442.

Saudi Arabia
Building Construction Detailed Estimating Practices in Saudi Arabia, Kamal M. Al-Harbi, David W. Johnston and Habib Fayadh, CO Dec. 94, p774-784.

Scheduling
CPM/LOB: New Methodology to Integrate CPM and Line of Balance, Saad A. Suhail and Richard H. Neale, CO Sept. 94, p667-684.

Fuzzy Modus Ponens Deduction Technique for Construction Scheduling, Ricky Wai-Kin Wu and Fabian C. Hadipriono, CO Mar. 94, p162-179.

HVLS: Horizontal and Vertical Logic Scheduling for Multistory Projects, Walid Y. Thabet and Yvan J. Beliveau, CO Dec. 94, p875-892.

Integrated System for Managing Owner-Directed Project Acceleration, Nagui I. Riad, David Arditi and Jamshid Mohammadi, CO Mar. 94, p77-95.

Modeling Work Space to Schedule Repetitive Floors in Multistory Buildings, Walid Y. Thabet and Yvan J. Beliveau, CO Mar. 94, p96-116.

Sea floor
Construction of an Island, Brendan Bambrick, CO Mar. 94, p223-227.

Selection
Simulation Verifies Queuing Program for Selecting Loader-Truck Fleets, Foad Farid and Thomas L. Koning, CO June 94, p386-404.

Sewers
Construction Technologies for Sewer Rehabilitation, Santiago M. Reyna, Jorge A. Vanegas and Abdul H. Khan, CO Sept. 94, p467-487.

Simulation
Automated Construction-Simulation Optimization, Simaan AbouRizk and Jingsheng Shi, CO June 94, p374-385.

Simulation Verifies Queuing Program for Selecting Loader-Truck Fleets, Foad Farid and Thomas L. Koning, CO June 94, p386-404.

Simulation models
Effect of Testing Variability on Contractor Payment for Asphalt Pavements, Serji N. Amirkhanian, James L. Burati, Jr. and Harish C. Mirchandani, CO Sept. 94, p579-592.

Site investigation
Integrated GIS for Construction Site Investigation, Amr R. Oloufa, Ahmed A. Eltahan and C. S. Papacostas, CO Mar. 94, p211-222.

Soil properties
Integrated GIS for Construction Site Investigation, Amr R. Oloufa, Ahmed A. Eltahan and C. S. Papacostas, CO Mar. 94, p211-222.

Solid waste management
Source Evaluation of Solid Waste in Building Construction, Rafael M. Gavilan and Leonhard E. Bernold, CO Sept. 94, p536-552.

Solid wastes
Source Evaluation of Solid Waste in Building Construction, Rafael M. Gavilan and Leonhard E. Bernold, CO Sept. 94, p536-552.

Specifications
Developing Specifications for Cellular-Telephone Base Stations, John C. Woolery, CO Sept. 94, p593-602.

Statistical models
Bidding Model for Refurbishment Work, Teo Ho Pin and W. F. Scott, CO June 94, p257-273.

Steel
Modified Roof Erection System, James D. Stevens and Alan L. Murray, CO Dec. 94, p828-837.

Storage
Modeling Work Space to Schedule Repetitive Floors in Multistory Buildings, Walid Y. Thabet and Yvan J. Beliveau, CO Mar. 94, p96-116.

Strategic planning
Strategies for Technology Push: Lessons from Construction Innovations, C. H. Nam and C. B. Tatum, CO Sept. 92, p507-524.

Structural design
Developing Specifications for Cellular-Telephone Base Stations, John C. Woolery, CO Sept. 94, p593-602.

Structure reinforcement
Effects of Design-Integrated Process Planning on Productivity in Rebar Placement, Md. Salim and Leonhard E. Bernold, CO Dec. 94, p720-738.

Surveys, data collection
Building Construction Detailed Estimating Practices in Saudi Arabia, Kamal M. Al-Harbi, David W. Johnston and Habib Fayadh, CO Dec. 94, p774-784.

Building Procurement by Design and Build Approach, Issaka Ndekugri and Adrian Turner, CO June 94, p243-256.

Humanware, Human Error, and Hiyari-Hat: A Template of Unsafe Symptoms, Shigeomi Nishigaki, Jeannette Vavrin, Noriaki Kano, Toshiro Haga, John C. Kunz and Kincho Law, CO June 94, p421-442.

Tall buildings
CPM/LOB: New Methodology to Integrate CPM and Line of Balance, Saad A. Suhail and Richard H. Neale, CO Sept. 94, p667-684.

Teamwork
Group Dynamics and Construction Project Manager, Pantaleo D. Rwelamila, CO Mar. 94, p3-10.

Process of Planning During Construction, Dora Cohenca-Zall, Alexander Laufer, Aviad Shapira and Gregory A. Howell, CO Sept. 94, p561-578.

Technology

Introducing New Process Technologies into Construction Companies, Maria Laborde and Victor Sanvido, CO Sept. 94, p488-508.

Strategies for Technology Push: Lessons from Construction Innovations, C. H. Nam and C. B. Tatum, CO Sept. 92, p507-524.

Technology assessment

Construction Technologies for Sewer Rehabilitation, Santiago M. Reyna, Jorge A. Vanegas and Abdul H. Khan, CO Sept. 94, p467-487.

Telecommunication

Developing Specifications for Cellular-Telephone Base Stations, John C. Woolery, CO Sept. 94, p593-602.

Tests

Void Mortar Joints: Bane of Brick Masonry, Clayford T. Grimm, CO Mar. 94, p152-161.

Tracking

Tracking and Steering Systems in Trenchless Construction, R. Tanwani and D. T. Iseley, CO Mar. 94, p65-76.

Tunneling

Tracking and Steering Systems in Trenchless Construction, R. Tanwani and D. T. Iseley, CO Mar. 94, p65-76.

Turnkey projects

Choosing Appropriate Construction Contracting Method, Christopher M. Gordon, CO Mar. 94, p196-210.

Two-dimensional

2D Bar-Code Applications in Construction, Bob G. McCullouch and Kamolwan Lueprasert, CO Dec. 94, p739-752.

United Kingdom

Building Procurement by Design and Build Approach, Issaka Ndekugri and Adrian Turner, CO June 94, p243-256.

Variability

Effect of Testing Variability on Contractor Payment for Asphalt Pavements, Serji N. Amirkhanian, James L. Burati, Jr. and Harish C. Mirchandani, CO Sept. 94, p579-592.

Voids

Void Mortar Joints: Bane of Brick Masonry, Clayford T. Grimm, CO Mar. 94, p152-161.

Waste management

Source Evaluation of Solid Waste in Building Construction, Rafael M. Gavilan and Leonhard E. Bernold, CO Sept. 94, p536-552.

Workspace

Modeling Work Space to Schedule Repetitive Floors in Multistory Buildings, Walid Y. Thabet and Yvan J. Beliveau, CO Mar. 94, p96-116.

AUTHOR INDEX

AbouRizk, Simaan
Automated Construction-Simulation Optimization, with Jingsheng Shi, CO June 94, p374-385

AbouRizk, Simaan M.
Fitting Beta Distributions Based on Sample Data, with Daniel W. Halpin and James R. Wilson, CO June 94, p288-305

Al-Harbi, Kamal M.
Building Construction Detailed Estimating Practices in Saudi Arabia, with David W. Johnston and Habib Fayadh, CO Dec. 94, p774-784

Amirkhanian, Serji N.
Effect of Testing Variability on Contractor Payment for Asphalt Pavements, with James L. Burati, Jr. and Harish C. Mirchandani, CO Sept. 94, p579-592
see Bai, Yong, CO June 94, p357-373

Anderson, Stuart D.
see Swiggum, Kevin E., CO Sept. 94, p649-666

Arditi, David
see Riad, Nagui I., CO Mar. 94, p77-95

Bai, Yong
Knowledge-Based Expert System for Concrete Mix Design, with Serji N. Amirkhanian, CO June 94, p357-373

Bambrick, Brendan
Construction of an Island, CO Mar. 94, p223-227

Beliveau, Yvan J.
see Thabet, Walid Y., CO Mar. 94, p96-116
see Thabet, Walid Y., CO Dec. 94, p875-892

Bernold, Leonhard E.
see Gavilan, Rafael M., CO Sept. 94, p536-552
see Salim, Md., CO Dec. 94, p720-738

Betts, Martin
disc. (of Strategies for Technology Push: Lessons from Construction Innovations, by C. H. Nam and C. B. Tatum, CO Sept. 92, p507-524) with George Ofori, CO June 94, p454-456

Brown, James
see Hinze, Jimmie, CO Dec. 94, p816-827

Brown, James D.
see Halligan, David W., CO Mar. 94, p47-64

Bubbers, Geoffrey
Hypertext and Claim Analysis, with John Christian, CO Dec. 92, p716-730
disc: Roy Wilson and George Tlamsa, CO June 94, p457
clo: CO June 94, p457-458

Burati, James L., Jr.
see Amirkhanian, Serji N., CO Sept. 94, p579-592

Carr, R. I.
see Tommelein, I. D., CO Dec. 94, p796-815

Christian, John
see Bubbers, Geoffrey, CO Dec. 92, p716-730

Cohenca-Zall, Dora
Process of Planning During Construction, with Alexander Laufer, Aviad Shapira and Gregory A. Howell, CO Sept. 94, p561-578

Dawood, N. N.
disc. (of DBID: Analogy-Based DSS for Bidding in Construction, by Osama Moselhi, Tarek Hegazy and Paul Fazio, CO Sept. 93, p466-479), CO Dec. 94, p894-896

de Neufville, Richard
Improving Contractors' Bids Using Preference Reversal Phenomenon, with Jayme Todd Smith, CO Dec. 94, p706-719

Demsetz, Laura A.
see Halligan, David W., CO Mar. 94, p47-64

Dowding, Charles H.
Ground Motions and Air-Blast Effects of Explosive Demolition of Structures, CO Dec. 94, p838-856

El-Itr, Zuhair
Minority Contractors: Framework for New Policy Development, with Roozbeh Kangari, CO Sept. 94, p632-648

Eltahan, Ahmed A.
see Oloufa, Amr R., CO Mar. 94, p211-222

Everett, John G.
Automation and Robotics Opportunities: Construction Versus Manufacturing, with Alexander H. Slocum, CO June 94, p443-452
Learning Curve Predictors for Construction Field Operations, with Sherif Farghal, CO Sept. 94, p603-616

Farghal, Sherif
see Everett, John G., CO Sept. 94, p603-616

Farid, Foad
Simulation Verifies Queuing Program for Selecting Loader-Truck Fleets, with Thomas L. Koning, CO June 94, p386-404

Fayadh, Habib
see Al-Harbi, Kamal M., CO Dec. 94, p774-784

Fayek, Aminah
see Russell, Alan D., CO Mar. 94, p11-33

Fazio, Paul
see Moselhi, Osama, CO Sept. 93, p466-479

Fischer, Martin
see Teicholz, Paul, CO Mar. 94, p117-131

Furuya, Nobuaki
Construction of Akashi-Kaikyo Bridge West Anchorage, with Reizou Yamaoka and Boyd C. Paulson, Jr., CO June 94, p337-356

Gavilan, Rafael M.
Source Evaluation of Solid Waste in Building Construction, with Leonhard E. Bernold, CO Sept. 94, p536-552

Gordon, Christopher M.
Choosing Appropriate Construction Contracting Method, CO Mar. 94, p196-210

Grimm, Clayford T.
Void Mortar Joints: Bane of Brick Masonry, CO Mar. 94, p152-161

Gugel, John G.
Model for Constructability Approach Selection, with Jeffrey S. Russell, CO Sept. 94, p509-521
see Russell, Jeffrey S., CO Mar. 94, p180-195

Hadipriono, Fabian C.
see Wu, Ricky Wai-Kin, CO Mar. 94, p162-179

Haga, Toshiro
see Nishigaki, Shigeomi, CO June 94, p421-442

Halligan, David W.
Action-Response Model and Loss of Productivity in Construction, with Laura A. Demsetz, James D. Brown and Clark B. Pace, CO Mar. 94, p47-64

Halpin, Daniel W.
see AbouRizk, Simaan M., CO June 94, p288-305
see Lutz, James D., CO Dec. 94, p753-773

Hartman, Francis T.
see Jergeas, George F., CO Sept. 94, p553-560
see Semple, Cheryl, CO Dec. 94, p785-795

Hegazy, Tarek
disc. (of Average-Bid Method—Competitive Bidding Strategy, by Photios G. Ioannou and Sou-Sen Leu, CO Mar. 93, p131-147) with Osama Moselhi, CO June 94, p458-460
see Moselhi, Osama, CO Sept. 93, p466-479

Hinze, Jimmie
The Contractor-Subcontractor Relationship: The Subcontractor's View, with Andrew Tracey, CO June 94, p274-287
Properties of Soundless Chemical Demolition Agents, with James Brown, CO Dec. 94, p816-827

Howell, Gregory A.
see Cohenca-Zall, Dora, CO Sept. 94, p561-578

Ibbs, C. William
see Songer, Anthony D., CO Dec. 94, p857-874

Ioannou, Photios G.
Average-Bid Method—Competitive Bidding Strategy, with Sou-Sen Leu, CO Mar. 93, p131-147
disc: Tarek Hegazy and Osama Moselhi, CO June 94, p458-460
clo: CO June 94, p460-463

Iseley, D. T.
see Tanwani, R., CO Mar. 94, p65-76

Jaselskis, Edward J.
see Severson, Gordon D., CO June 94, p405-420

Jergeas, George
see Semple, Cheryl, CO Dec. 94, p785-795

Jergeas, George F.
Contractors' Construction-Claims Avoidance, with Francis T. Hartman, CO Sept. 94, p553-560

Johnston, David W.
see Al-Harbi, Kamal M., CO Dec. 94, p774-784

Kangari, Roozbeh
see El-Itr, Zuhair, CO Sept. 94, p632-648

Kano, Noriaki
see Nishigaki, Shigeomi, CO June 94, p421-442

Khan, Abdul H.
see Reyna, Santiago M., CO Sept. 94, p467-487

Koning, Thomas L.
see Farid, Foad, CO June 94, p386-404

Kunz, John C.
see Nishigaki, Shigeomi, CO June 94, p421-442

Laborde, Maria
Introducing New Process Technologies into Construction Companies, with Victor Sanvido, CO Sept. 94, p488-508

Laufer, Alexander
see Cohenca-Zall, Dora, CO Sept. 94, p561-578

Law, Kincho
see Nishigaki, Shigeomi, CO June 94, p421-442

Ledbetter, W. B.
Quality Performance on Successful Project, CO Mar. 94, p34-46

Leu, Sou-Sen
see Ioannou, Photios G., CO Mar. 93, p131-147

Lueprasert, Kamolwan
see McCullouch, Bob G., CO Dec. 94, p739-752

Lutz, James D.
Simulation of Learning Development in Repetitive Construction, with Daniel W. Halpin and James R. Wilson, CO Dec. 94, p753-773

Mahoney, John J.
Construction Site Applications of CAD, with C. B. Tatum, CO Sept. 94, p617-631

McCullouch, Bob G.
2D Bar-Code Applications in Construction, with Kamolwan Lueprasert, CO Dec. 94, p739-752

Mellott, Robert E.
see Thomas, H. Randolph, CO June 94, p321-336

Mirchandani, Harish C.
see Amirkhanian, Serji N., CO Sept. 94, p579-592

Mohammadi, Jamshid
see Riad, Nagui I., CO Mar. 94, p77-95

Moselhi, Osama
DBID: Analogy-Based DSS for Bidding in Construction, with Tarek Hegazy and Paul Fazio, CO Sept. 93, p466-479
disc: N. N. Dawood, CO Dec. 94, p894-896
clo: CO Dec. 94, p896-897
see Hegazy, Tarek, (disc), CO Mar. 93, p131-147

Murphree, E. Lile, Jr.
see Tsimberdonis, Athanase I., CO Sept. 94, p522-535

Murray, Alan L.
see Stevens, James D., CO Dec. 94, p828-837

Nam, C. H.
Strategies for Technology Push: Lessons from Construction Innovations, with C. B. Tatum, CO Sept. 92, p507-524
disc: Martin Betts and George Ofori, CO June 94, p454-456

Naoum, Shamil G.
Performance of Management Contracts, CO Dec. 94, p687-705

Napier, Thomas R.
see Songer, Anthony D., CO Dec. 94, p857-874

Ndekugri, Issaka
Building Procurement by Design and Build Approach, with Adrian Turner, CO June 94, p243-256

Neale, Richard H.
see Suhail, Saad A., CO Sept. 94, p667-684

Nishigaki, Shigeomi
Humanware, Human Error, and Hiyari-Hat: A Template of Unsafe Symptoms, with Jeannette Vavrin, Noriaki Kano, Toshiro Haga, John C. Kunz and Kincho Law, CO June 94, p421-442

Odeh, A. M.
see Tommelein, I. D., CO Dec. 94, p796-815

Ofori, George
see Betts, Martin, (disc), CO Sept. 92, p507-524

Oloufa, Amr R.
Integrated GIS for Construction Site Investigation, with Ahmed A. Eltahan and C. S. Papacostas, CO Mar. 94, p211-222

Pace, Clark B.
see Halligan, David W., CO Mar. 94, p47-64

Papacostas, C. S.
see Oloufa, Amr R., CO Mar. 94, p211-222

Paulson, Boyd C., Jr.
see Furuya, Nobuaki, CO June 94, p337-356

Pin, Teo Ho
Bidding Model for Refurbishment Work, with W. F. Scott, CO June 94, p257-273

Radtke, Michael W.
see Russell, Jeffrey S., CO Mar. 94, p180-195

Reyna, Santiago M.
Construction Technologies for Sewer Rehabilitation, with Jorge A. Vanegas and Abdul H. Khan, CO Sept. 94, p467-487

Riad, Nagui I.
Integrated System for Managing Owner-Directed Project Acceleration, with David Arditi and Jamshid Mohammadi, CO Mar. 94, p77-95

Rosenfeld, Yechiel
see Warszawski, Abraham, CO Mar. 94, p132-151

Russell, Alan D.
Automated Corrective Action Selection Assistant, with Aminah Fayek, CO Mar. 94, p11-33

Russell, Jeffrey S.
Comparative Analysis of Three Constructability Approaches, with John G. Gugel and Michael W. Radtke, CO Mar. 94, p180-195
see Gugel, John G., CO Sept. 94, p509-521
see Severson, Gordon D., CO June 94, p405-420
see Swiggum, Kevin E., CO Sept. 94, p649-666

Rwelamila, Pantaleo D.
Group Dynamics and Construction Project Manager, CO Mar. 94, p3-10

Sakarcan, Ahmet S.
see Thomas, H. Randolph, CO Mar. 94, p228-239

Salim, Md.
Effects of Design-Integrated Process Planning on Productivity in Rebar Placement, with Leonhard E. Bernold, CO Dec. 94, p720-738

Sanvido, Victor
see Laborde, Maria, CO Sept. 94, p488-508

Scott, W. F.
see Pin, Teo Ho, CO June 94, p257-273

Semple, Cheryl
Construction Claims and Disputes: Causes and Cost/Time Overruns, with Francis T. Hartman and George Jergeas, CO Dec. 94, p785-795

Severson, Gordon D.
Predicting Construction Contract Surety Bond Claims Using Contractor Financial Data, with Jeffrey S. Russell and Edward J. Jaselskis, CO June 94, p405-420

Shapira, Aviad
see Cohenca-Zall, Dora, CO Sept. 94, p561-578

Shi, Jingsheng
see AbouRizk, Simaan, CO June 94, p374-385

Slocum, Alexander H.
see Everett, John G., CO June 94, p443-452

Smith, Gary R.
see Thomas, H. Randolph, CO June 94, p321-336

Smith, Jayme Todd
see de Neufville, Richard, CO Dec. 94, p706-719

Songer, Anthony D.
Process Model for Public Sector Design-Build Planning, with C. William Ibbs and Thomas R. Napier, CO Dec. 94, p857-874

Stevens, James D.
Modified Roof Erection System, with Alan L. Murray, CO Dec. 94, p828-837

Suhail, Saad A.
CPM/LOB: New Methodology to Integrate CPM and Line of Balance, with Richard H. Neale, CO Sept. 94, p667-684

Swiggum, Kevin E.
Case Study of Burlington Cable-Stayed Bridge, with Stuart D. Anderson and Jeffrey S. Russell, CO Sept. 94, p649-666

Tanwani, R.
Tracking and Steering Systems in Trenchless Construction, with D. T. Iseley, CO Mar. 94, p65-76

Tatum, C. B.
see Mahoney, John J., CO Sept. 94, p617-631
see Nam, C. H., CO Sept. 92, p507-524

Teicholz, Paul
Strategy for Computer Integrated Construction Technology, with Martin Fischer, CO Mar. 94, p117-131

Thabet, Walid Y.
HVLS: Horizontal and Vertical Logic Scheduling for Multistory Projects, with Yvan J. Beliveau, CO Dec. 94, p875-892
Modeling Work Space to Schedule Repetitive Floors in Multistory Buildings, with Yvan J. Beliveau, CO Mar. 94, p96-116

Thomas, H. Randolph
Forecasting Labor Productivity Using Factor Model, with Ahmet S. Sakarcan, CO Mar. 94, p228-239
Interpretation of Construction Contracts, with Gary R. Smith and Robert E. Mellott, CO June 94, p321-336

Tlamsa, George
see Wilson, Roy, (disc), CO Dec. 92, p716-730

Tommelein, I. D.
Assembly of Simulation Networks Using Designs, Plans, and Methods, with R. I. Carr and A. M. Odeh, CO Dec. 94, p796-815

Tracey, Andrew
see Hinze, Jimmie, CO June 94, p274-287

Tsimberdonis, Athanase I.
Equipment Management through Operational Failure Costs, with E. Lile Murphree, Jr., CO Sept. 94, p522-535

Turner, Adrian
see Ndekugri, Issaka, CO June 94, p243-256

Vanegas, Jorge A.
see Reyna, Santiago M., CO Sept. 94, p467-487

Vavrin, Jeannette
see Nishigaki, Shigeomi, CO June 94, p421-442

Warszawski, Abraham
Robot for Interior-Finishing Works in Building: Feasibility Analysis, with Yechiel Rosenfeld, CO Mar. 94, p132-151

Williams, Trefor P.
Predicting Changes in Construction Cost Indexes Using Neural Networks, CO June 94, p306-320

Wilson, James R.
see AbouRizk, Simaan M., CO June 94, p288-305
see Lutz, James D., CO Dec. 94, p753-773

Wilson, Roy
disc. (of Hypertext and Claim Analysis, by Geoffrey Bubbers and John Christian, CO Dec. 92, p716-730) with George Tlamsa, CO June 94, p457

Woolery, John C.
Developing Specifications for Cellular-Telephone Base Stations, CO Sept. 94, p593-602

Wu, Ricky Wai-Kin
Fuzzy Modus Ponens Deduction Technique for Construction Scheduling, with Fabian C. Hadipriono, CO Mar. 94, p162-179

Yamaoka, Reizou
see Furuya, Nobuaki, CO June 94, p337-356